

INTERNATIONAL SEARCH REPORT

 International application No.
 PCT/KR2004/001814

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 H03H 9/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H03H*

 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 KR, JP : IPC as above

 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 eKIPASS, PAJ, FPD, USPAT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2002-198758 A (SAMSUNG ELECTRO MECH CO LTD) 12 JULY 2002 See [0023] ~ [0026] , Fig.2(A)~2(D).	8, 9
A		1 - 7, 10 - 16
Y	JP 62-168410 A (VICTOR CO OF JAPAN LTD) 24 JULY 1987 See the whole document, and Fig.1, 3.	8, 9
A	JP 5-275963 A (OKI ELECTRIC IND CO LTD) 22 OCTOBER 1993 See abstract, and Fig. 1.	8, 9



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

01 NOVEMBER 2004 (01.11.2004)

Date of mailing of the international search report

02 NOVEMBER 2004 (02.11.2004)

Name and mailing address of the ISA/KR


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INTERNATIONAL SEARCH REPORT
Information on patent family members

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PCT/KR2004/001814

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2002-198758 A	12/07/2002	KR 2001-0019757 A KR 398363 B	15/06/2002 02/09/2003
JP 62-168410 A	24/07/1987		
JP 5-275963 A	22/10/1993		